Inventor: Douglas E. LECRONE et al.
Filed: December 1, 2003 Serial No.: To be assigned
Sheet 1 of 22 Docket No.: EMS-07001

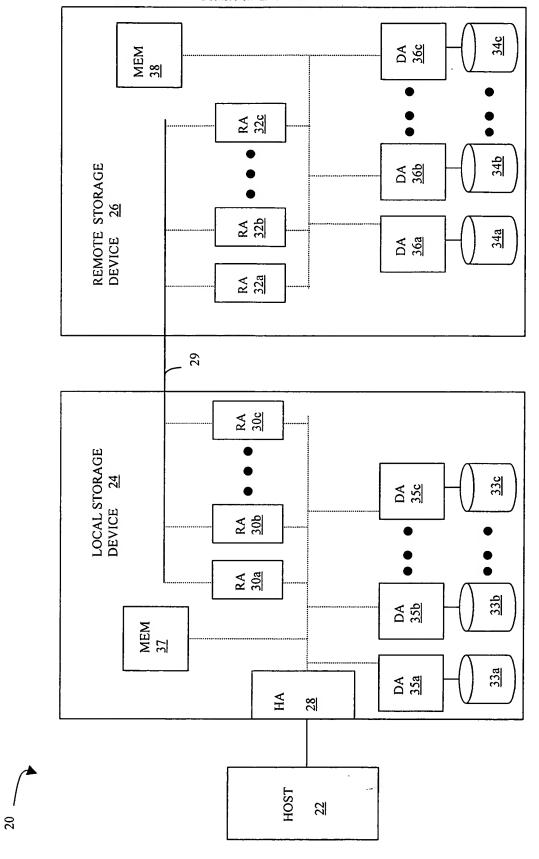
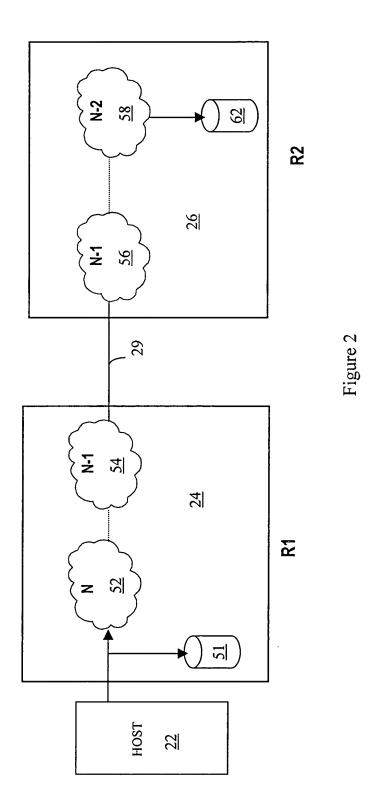


FIGURE 1

Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al.
Filed: December 1, 2003 Serial No.: To be assigned Sheet 2 of 22 Docket No.: EMS-07001



Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al.
Filed: December 1, 2003 Serial No.: To be assigned Sheet 3 of 22 Docket No.: EMS-07001

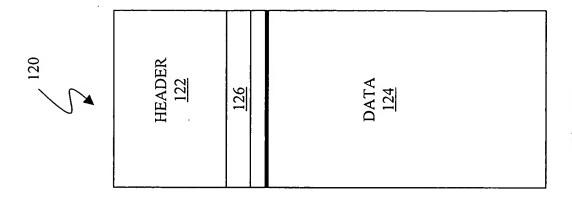
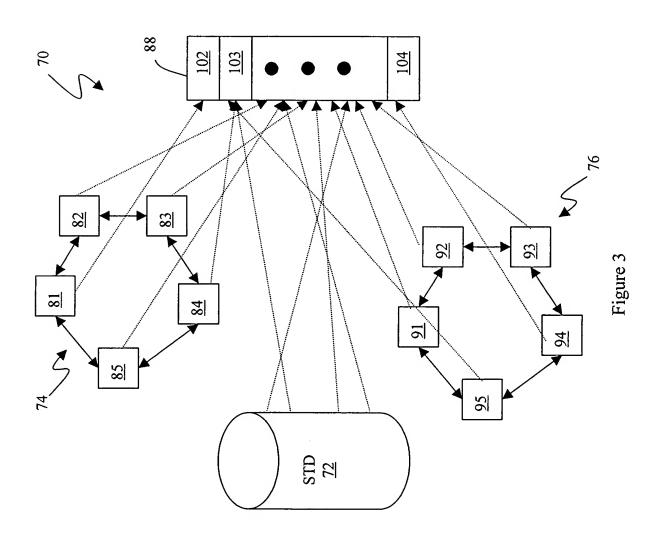
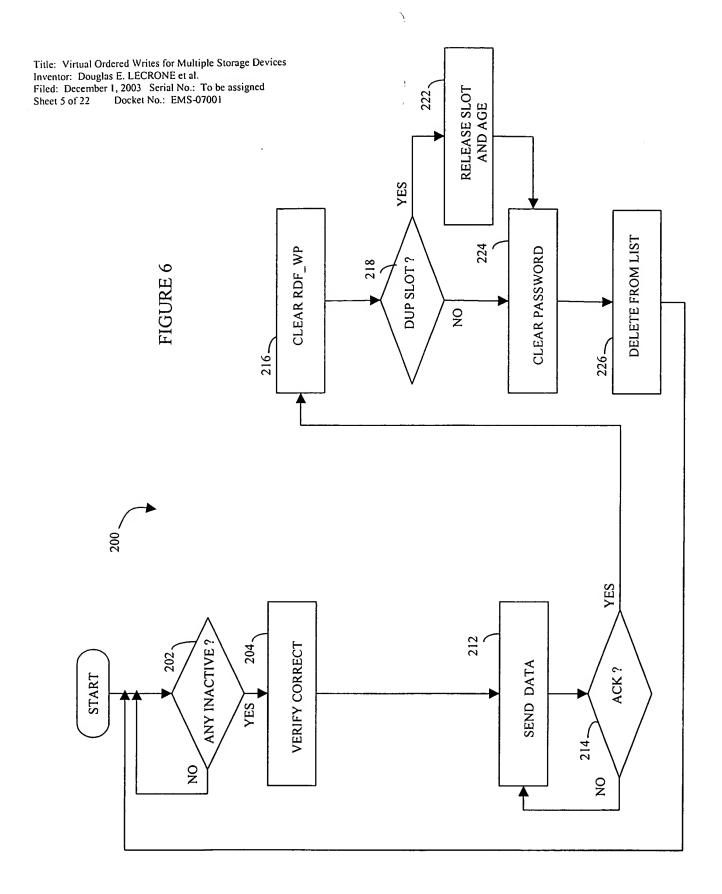


Figure 4



Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al.
Filed: December 1, 2003 Serial No.: To be assigned Sheet 4 of 22 Docket No.: EMS-07001 ADD TO ACTIVE LIST SET CACHE STAMP COPY OLD SLOT TO NEW SLOT **GET NEW SLOT** 164 172 166 168~ FIGURE 5 8 SEQ NO = N? YES 162 PSSWD VALID? SET VALUE LOCK SLOT YES FOR N START WRITE TO SLOT UNLOCK SLOT DONE 146_ 144 <u>N</u> 156_ 158 ADD TO ACTIVE LIST SET CACHE STAMP SET FLAGS 154 152_



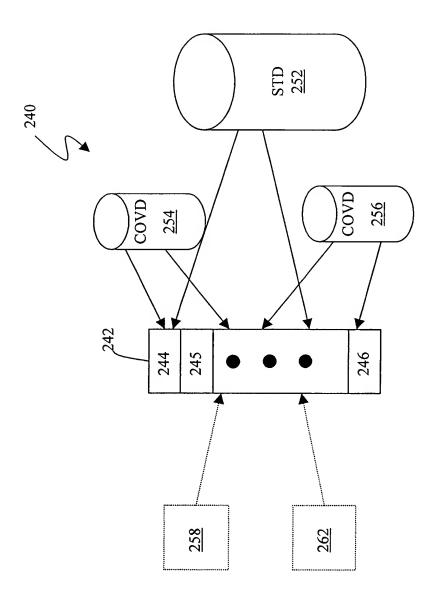
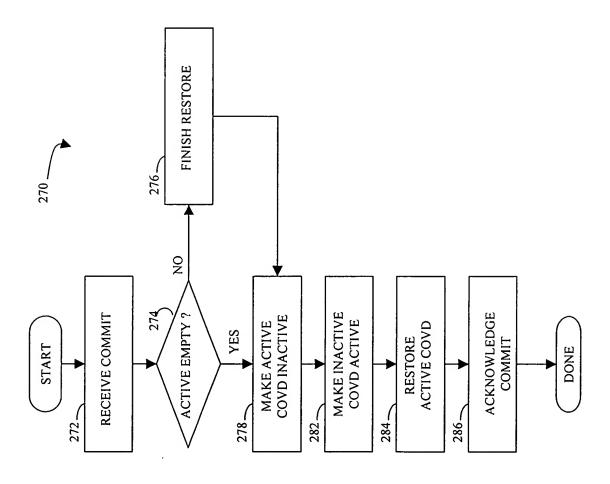


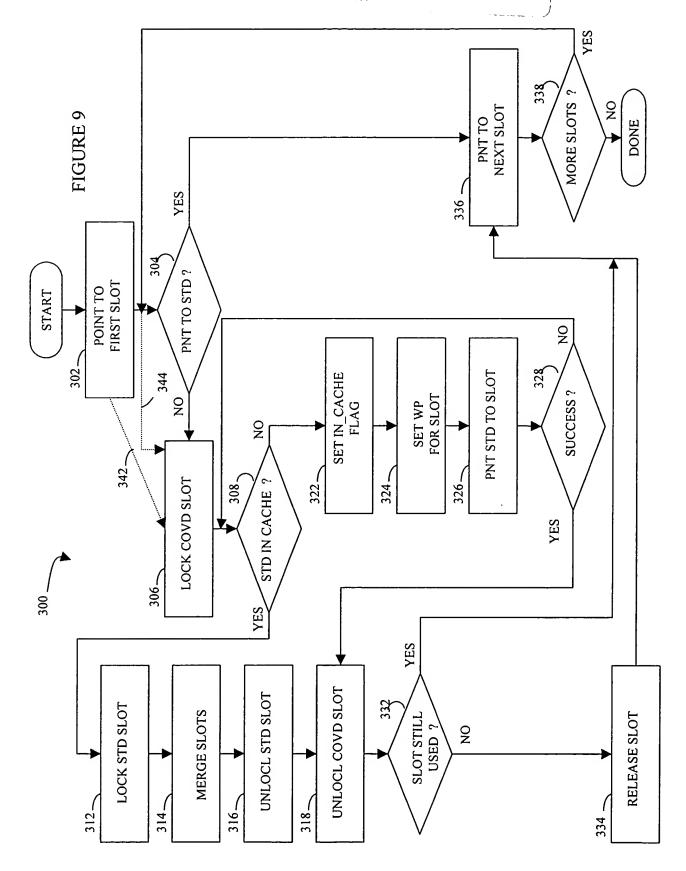
FIGURE 7

Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al.
Filed: December 1, 2003 Serial No.: To be assigned

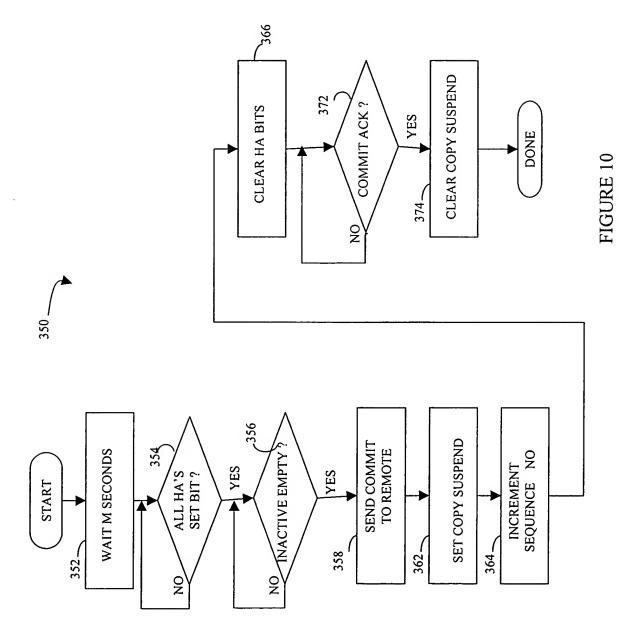
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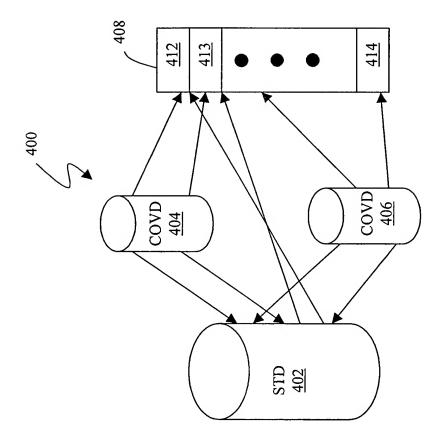
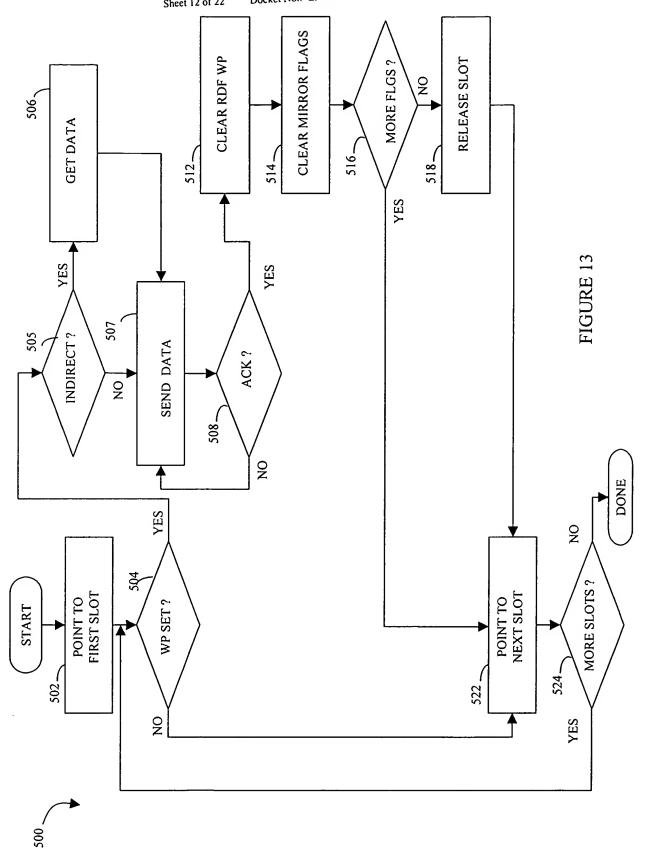


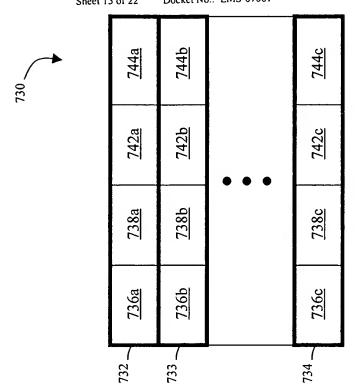
Figure 11

Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al. Filed: December 1, 2003 Serial No.: To be assigned Sheet 11 of 22 Docket No.: EMS-07001 SET RDF WP, IN_CACHE CLEAR INDIRECT ACTIVE COVD PNT TO SLOT **GET NEW SLOT** 458 452_ 454_ 456~ <u>8</u> ACTIVE PNT TO SLT? 9 WRITE TO SLOT UNLOCK SLOT DONE INACTVE PNT SET VALUE LOCK SLOT TO SLOT? START FOR N 464_ 462_ 446_ 444 FIGURE 12 YES ADJUST RECORD FLGS COPY OLD DATA TO NEW SLOT GET NEW SLOT SET INDIRRECT 478 476 474_

Title: Virtual Ordered Writes for Multiple Storage Devices
Inventor: Douglas E. LECRONE et al.
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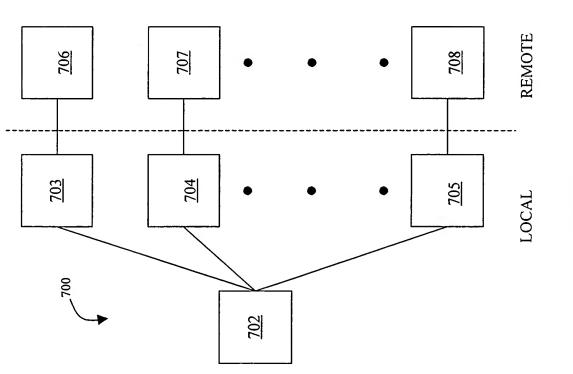


FIGURE 14

Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al. Filed: December 1, 2003 Serial No.: To be assigned Sheet 14 of 22 Docket No.: EMS-07001

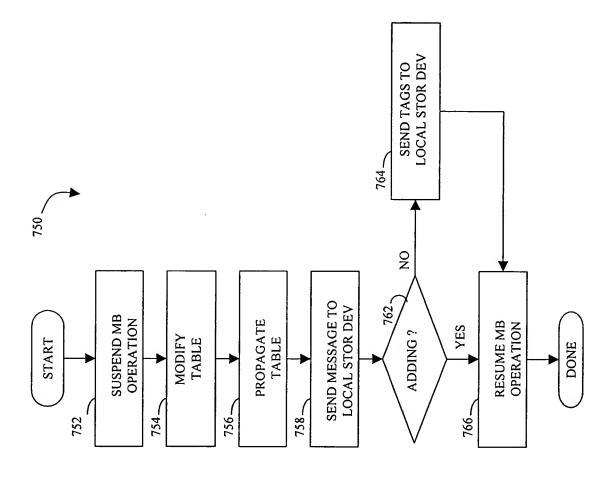
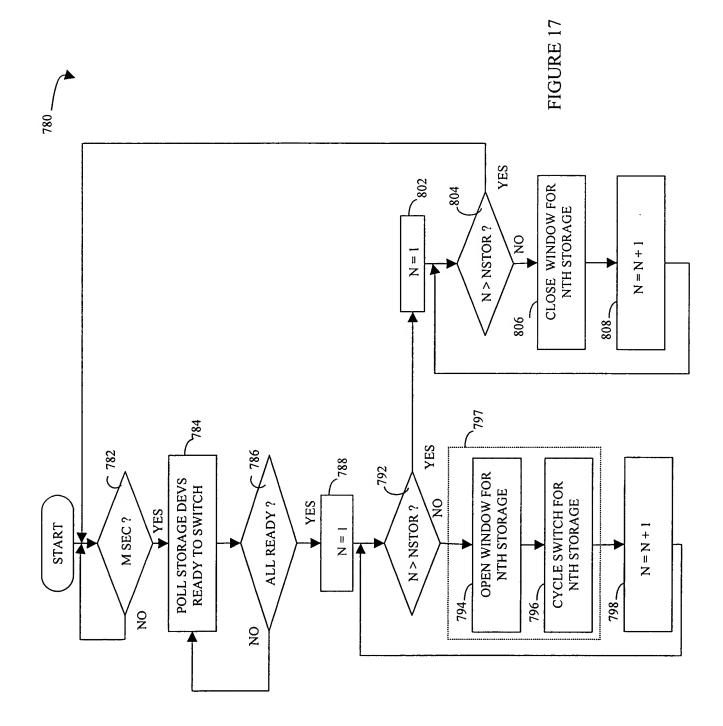
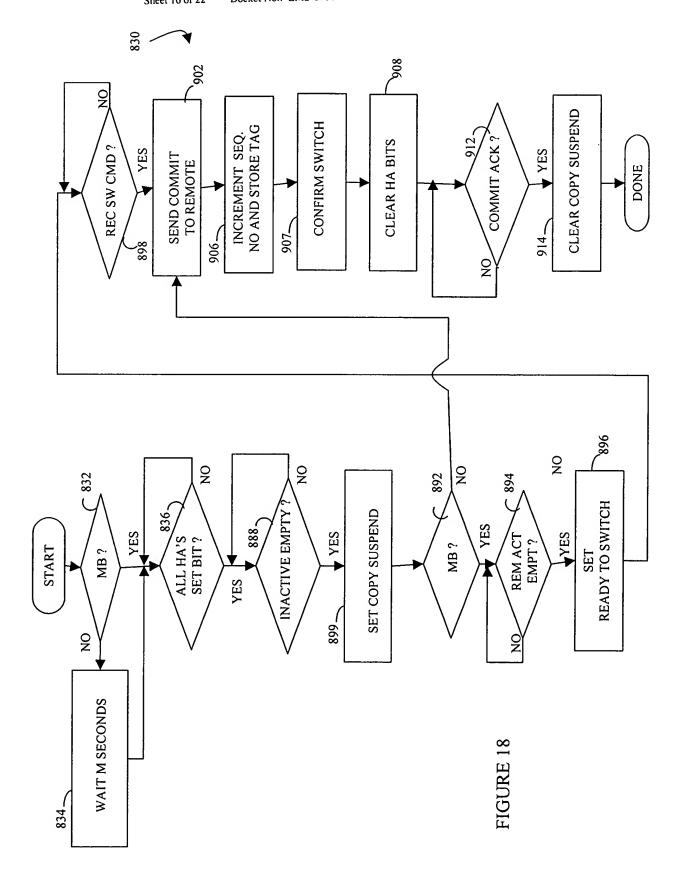


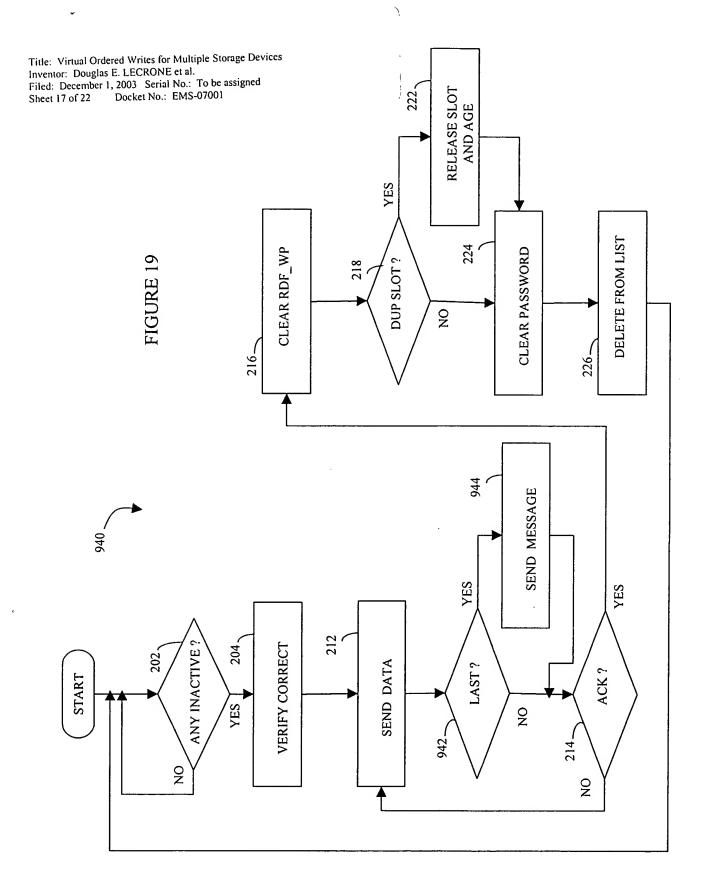
FIGURE 16

Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al. Filed: December 1, 2003 Serial No.: To be assigned Sheet 15 of 22 Docket No.: EMS-07001

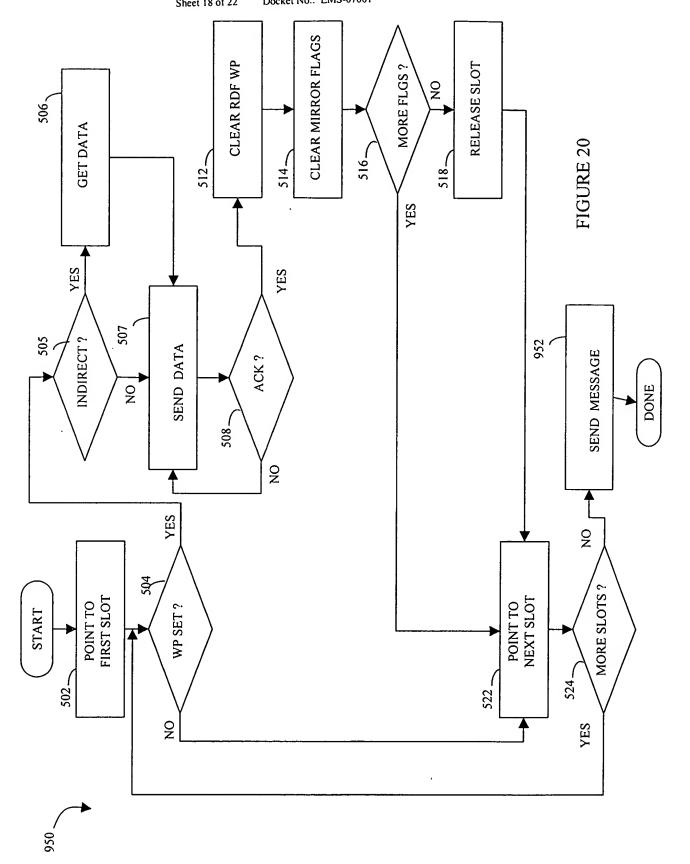


Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al. Filed: December 1, 2003 Serial No.: To be assigned Sheet 16 of 22 Docket No.: EMS-07001

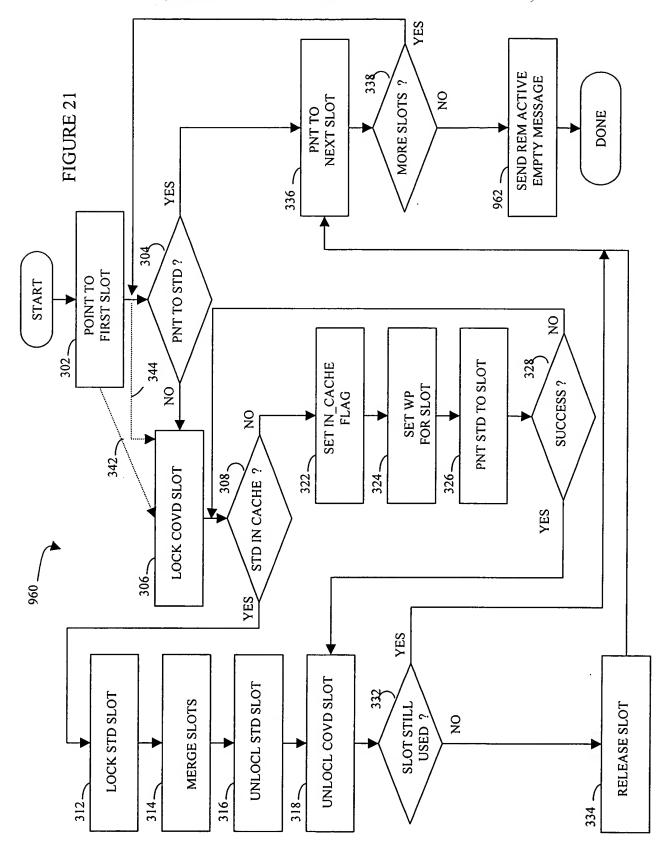




Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al.
Filed: December 1, 2003 Serial No.: To be assigned Sheet 18 of 22 Docket No.: EMS-07001



Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al. Filed: December 1, 2003 Serial No.: To be assigned Sheet 19 of 22 Docket No.: EMS-07001



Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al.
Filed: December 1, 2003 Serial No.: To be assigned Sheet 20 of 22 Docket No.: EMS-07001

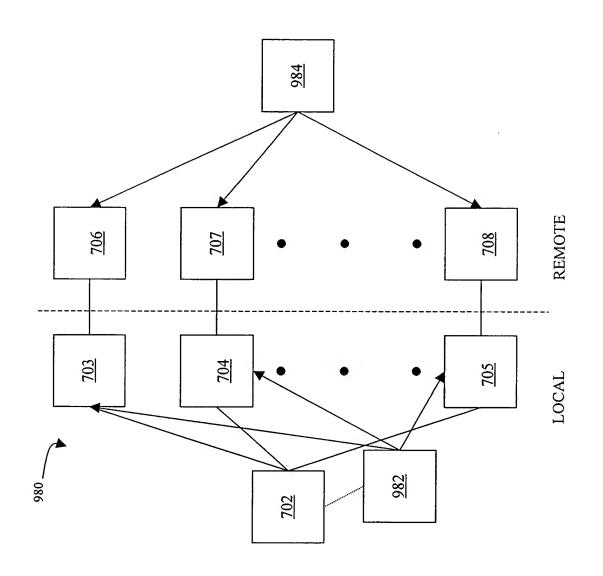


FIGURE 22

Title: Virtual Ordered Writes for Multiple Storage Devices Inventor: Douglas E. LECRONE et al. Filed: December 1, 2003 Serial No.: To be assigned Sheet 21 of 22 Docket No.: EMS-07001

